

FIG. 1

		Working Example 1	Working Example 2	Working Example 3	Working Example 4	Working Example 5	Working Example 6	Comparative Example 1	Comparative Example 2
Properties of evaluated samples	Amount of particles (parts by weight)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Shape of particles	Needle-like	Needle-like	Needle-like	Needle-like	Needle-like	Needle-like	Spherical	Spherical
	Material for particles	Wollastonite	Wollastonite	Wollastonite	Wollastonite	Wollastonite	Wollastonite	Silica	Silica
	Particle hardness (Mohs hardness)	4.5	4.5	4.5	4.5	4.5	4.5		
	Average grain size ( $\mu\text{m}$ )	4	8	13	12	20	40	10	10
	Average particle length ( $\mu\text{m}$ )	12	40	78	264	360	640	10	10
Evaluation results	Particle content (wt.%)	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	Coating thickness ( $\mu\text{m}$ )	20	20	20	20	20	20	20	13
	Ease of coating	5	5	5	5	4	3	5	5
	Ease of cutting Test A	2	3	4	4	4	4	1	3
	Adhesive strength	5	5	5	5	5	5	5	1
	Overall evaluation	$\Delta$ (12)	$\bigcirc$ (13)	$\odot$ (14)	$\odot$ (14)	$\bigcirc$ (13)	$\Delta$ (12)	$\times$ (11)	$\times$ (9)
Parameters	Parameter 1	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\times$	$\times$
	Parameter 2	$\times$	$\times$	$\times$	$\times$	$\times$	$\times$	$\times$	$\times$
	Parameter 3	$\times$	$\Delta$ (lower)	$\bigcirc$	$\bigcirc$	$\Delta$ (upper)	$\times$	$\times$	$\times$
	Parameter 4	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\times$	$\times$

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FIG. 2

	Working Example 4	Working Example 7	Working Example 8	Working Example 9	Working Example 10	Working Example 11
Properties of evaluated samples	1.0	1.0	0.3	0.5	0.4	1.7
Amount of particles (parts by weight)						
Shape of particles						
Material for particles	Needle-like Wollastonite	Needle-like Glass	Needle-like Glass	Needle-like Glass	Needle-like Glass	Needle-like Glass
Particle hardness (Mohs hardness)	4.5	6.5	6.5	6.5	6.5	6.5
Average grain size ( $\mu\text{m}$ )	12	10	10	10	10	10
Average particle length ( $\mu\text{m}$ )	264	348	348	348	348	348
Particle content (wt.%)	2.2	2.2	0.7	1.1	3.0	3.6
Coating thickness ( $\mu\text{m}$ )	20	20	20	20	20	20
Ease of coating	5	5	5	5	5	5
Ease of cutting Test B	2	5	3	4	5	5
Adhesive strength	5	5	5	5	4	3
Overall evaluation	$\Delta$ (12)	$\odot$ (15)	$\odot$ (13)	$\odot$ (14)	$\odot$ (14)	$\odot$ (13)
Parameter 1	$\odot$	$\odot$	$\odot$	$\odot$	$\odot$	$\odot$
Parameter 2	$\times$	$\odot$	$\odot$	$\odot$	$\odot$	$\odot$
Parameter 3	$\odot$	$\odot$	$\odot$	$\odot$	$\odot$	$\odot$
Parameter 4	$\odot$	$\odot$	$\times$	$\Delta$ (lower)	$\Delta$ (upper)	$\times$